

IN THE CLAIMS

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1. (Currently Amended) A method for providing a video ~~display~~ image, comprising:  
receiving a video data stream and an associated data stream corresponding to the  
video data stream by a computer system; and  
displaying a the video image defined by the video data stream on a display device  
of the computer system and performing an interactive command function specified by the  
associated data stream.

2. (Original) The method of claim 1, wherein the video data stream is received  
during a series of scan intervals of a video frame and the associated data stream is  
received during a vertical blanking interval of the video frame.

3. (Original) The method of claim 1, wherein the video data stream and the  
associated data stream each comprise a series of digital communication packets, each  
digital communication packet having an identifier that indicates the video data stream or  
the associated data stream.

4. (Original) The method of claim 1, wherein the interactive command function  
comprises a command that specifies a set of parameters that determines an area on a  
display surface of the display device for placement of a video display window that  
contains the video image.

5. (Original) The method of claim 1, wherein the interactive command function  
comprises a command that specifies a set of parameters that determines an area on a

display surface of the display device for placement of a graphical object that corresponds to the video image.

6. (Original) The method of claim 5, wherein the interactive command function comprises a command that specifies a set of pixel data or graphical description commands that correspond to the graphical object.

7. (Original) The method of claim 1, wherein the interactive command function comprises a command that specifies a set of parameters that determines an area on a display surface of the display device for placement of a selection window that corresponds to the video image.

8. (Original) The method of claim 7, wherein the interactive command function comprises a command that specifies an interactive command that is performed if a user selects the selection window.

9. (Currently Amended) A method ~~for creating a display in a computer system~~, comprising:

receiving, by a computer system, a video stream and a data stream synchronized to the video stream, the data stream specifying at least one graphical command;

generating a video scene defined by the data stream onto a portion of a display screen of the computer system; and

performing a graphical operation on the ~~computer~~ display screen defined by the command.

10. (Previously Presented) The method of claim 9, further comprising receiving an audio stream synchronized to the video stream and playing the audio stream through an audio subsystem of the computer system.

11. (Original) The method of claim 9, wherein the video stream is coded in a series of video scan intervals of a video signal and the data stream is coded in a series of nonvideo scan intervals of the video signal.

12. (Original) The method of claim 9, wherein the data stream specifies a graphical object for display on the display screen.

13. (Original) The method of claim 9, wherein the graphical command specifies a color palette for the display screen.

14. (Original) The method of claim 9, wherein the graphical command specifies placement of a graphical object on the display screen.

15. (Original) The method of claim 9, wherein the graphical command specifies a set of parameters that define selection regions on the display screen.

16. (Original) The method of claim 15, wherein the graphical command specifies a selection device for picking the selection regions on the display screen.

17. (Original) The method of claim 9, wherein the graphical command specifies text for display on the display screen.

18. (Original) The method of claim 17, wherein the graphical command specifies placement and format of the text including font, color, and point size.

19. (Original) The method of claim 9, wherein the data stream comprises a series of data packets and wherein the step of receiving a video stream and a data stream synchronized to the video stream includes the step of filtering the data packets according to a destination address of each data packet.

20. (Original) The method of claim 9, wherein the data stream comprises a series of data packets and wherein the step of receiving a video stream and a data stream synchronized to the video stream includes the step of filtering the data packets according to a source address of each data packet.

Claims 21-46 (Canceled)

47. (Currently Amended) A data modem, comprising:

a data selector to receive digital data and extract a video data stream and an associated data stream from the digital data, the video data stream being coded in a series of video scan intervals of the digital data and the associated data stream being coded in a series of nonvideo scan intervals of the digital data;

a video queue coupled to the data selector, the video queue to receive the video data stream and assemble corresponding video packets; and

an associated data queue coupled to the data selector to receive the associated data stream and assemble corresponding associated data packets, the ~~associate~~ associated data packets to specify at least one graphical command, the graphical command comprising a command that specifies a set of parameters to configure a video display based on the video packets.

48. (Previously Presented) The data modem of claim 47, further comprising an audio queue coupled to the data selector, the data selector to extract an audio data stream from the digital data, the audio queue to receive the audio data stream and assemble corresponding audio packets.

49. (Previously Presented) The data modem of claim 47, further comprising an address filter coupled to the data selector and the video queue.

50. (Previously Presented) The data modem of claim 48, further comprising an address filter coupled to the data selector, the video queue, the associated data queue, and the audio queue, the address filter to specify a data stream destination address.

51. (Previously Presented) A computer system, comprising:

a data modem to receive signals, the signals comprising a video data stream and an associated data stream synchronized to the video data stream, the associated data stream specifying at least one graphical command, the video stream being coded in a series of video scan intervals of the signals and the data stream being coded in a series of nonvideo scan intervals of the signals; and

a display device coupled to the data modem, the associated data stream also specifying a graphical object for display on a portion of a display device, the display device to perform a graphical operation on the portion of the display device defined by the at least one graphical command.

52. (Previously Presented) The computer system of claim 51, further comprising a graphics display subsystem coupled between the data modem and the display device, the graphics display subsystem to drive the display device.

53. (Previously Presented) The computer system of claim 51, further comprising an audio device coupled to the data modem, the audio device to receive an audio stream synchronized to the video data stream.

54. (Previously Presented) The computer system of claim 53, wherein the audio stream comprises analog audio signals and wherein the computer system further comprises an audio subsystem coupled between the data modem and the audio device, the audio subsystem to receive digitized audio data and generate the analog audio signals.

55. (Previously Presented) The computer system of claim 51, wherein the data modem comprises:

a data selector to receive the signals and extract the video data stream and the associated data stream from the signals;

a video queue coupled to the data selector, the video queue to receive the video data stream and assemble corresponding video packets; and

an associated data queue coupled to the data selector to receive the associated data stream and assemble corresponding associated data packets.

56. (Previously Presented) The computer system of claim 55, wherein the data modem further comprises:

an audio queue coupled to the data selector, the data selector to extract an audio data stream from the signals, the audio queue to receive the audio data stream and assemble corresponding audio packets.

57. (Previously Presented) The computer system of claim 55, further comprising a processor coupled to the data modem, the processor to distribute video packets from the video queue to the display device to generate the video image, the processor to receive associated data packets from the associated data queue and perform the at least one graphical command specified in the associated data packets.

58. (Previously Presented) An interactive video system, comprising:

a receiver; and

a computer coupled to the receiver, the computer comprising:

a data modem to receive signals, the signals comprising a video data stream and an associated data stream synchronized to the video data stream, the associated data stream specifying at least one graphical command, the video stream being coded in a series of video scan intervals of the signals and the data stream being coded in a series of nonvideo scan intervals of the signals; and

a display device coupled to the data modem, the associated data stream also specifying a graphical object for display on a portion of a display device, the display device to perform a graphical operation on the portion of the display device defined by the at least one graphical command.

59. (Previously Presented) The interactive video system of claim 58 wherein the receiver is a satellite receiver.

60. (Previously Presented) The interactive video system of claim 58 wherein the receiver is a cable television receiver.

61. (Previously Presented) The interactive video system of claim 58 wherein the receiver is a television broadcast receiver.

62. (Previously Presented) A system, comprising:

means for receiving a video stream and a data stream synchronized to the video stream, the data stream specifying at least one graphical command, the data stream also specifying a graphical object for display on a portion of a display screen, the video stream being coded in a series of video scan intervals of a video signal and the data stream being coded in a series of nonvideo scan intervals of the video signal;

means for receiving an audio stream synchronized to the video stream and playing the audio stream through an audio subsystem of the computer system;

means for generating a video scene defined by the graphical object specified in the data stream onto the portion of the display screen of the computer system; and

means for performing a graphical operation on the portion of the display screen defined by the at least one graphical command.



63. (Previously Presented) The system of claim 62, wherein the data stream comprises a series of data packets and wherein the system further comprises means for filtering the series of data packets according to a source address of each data packet.

64. (Previously Presented) The system of claim 62, wherein the data stream comprises a series of data packets and wherein the system further comprises means for filtering the series of data packets according to a destination address of each data packet.

① 65. (Previously Presented) A machine readable medium having stored thereon instructions which when executed by a processor cause the processor to perform the following:

receiving a video stream and a data stream synchronized to the video stream, the data stream specifying at least one graphical command, the data stream also specifying a graphical object for display on a portion of a display screen, the video stream being coded in a series of video scan intervals of a video signal and the data stream being coded in a series of nonvideo scan intervals of the video signal;

generating a video scene defined by the graphical object specified in the data stream onto the portion of the display screen of the computer system; and

performing a graphical operation on the portion of the display screen defined by the at least one graphical command.

66. (Previously Presented) The machine readable medium of claim 65, further causing the processor to perform the following:

receiving an audio stream synchronized to the video stream and playing the audio stream through an audio subsystem of the computer system.

67. (Previously Presented) The machine readable medium of claim 65, wherein the data stream comprises a series of data packets and wherein the processor further performs the following:

filtering the data packets according to one of either a source address and a destination address.

68. (Previously Presented) A computer system, comprising:

a data modem to receive a video data stream and an associated data stream corresponding to the video data stream;

a display device to display a video image defined by the video data stream; and

a processor to perform an interactive command function specified by the associated data stream, wherein the interactive command function comprises a command that specifies a set of parameters that controls the configuration of the video image including determining an area on a display surface of the display device for placement of a graphical object that corresponds to the video image.

69. (Previously Presented) A computer system, comprising:

a data modem to receive a video stream and a data stream synchronized to the video stream, wherein the data stream specifies a graphical object for display on a display screen, the data stream specifying at least one graphical command;

a processor to generate a video scene defined by the data stream onto a portion of the display screen of the computer system; and

a display subsystem to perform a graphical operation on the display screen defined by the graphical command, wherein the graphical command controls the configuration of the video scene.

70. (Previously Presented) A computer system, comprising:

a modem to receive a video stream and a data stream synchronized to the video stream, the data stream specifying at least one graphical command;

a processor to generate a video scene defined by the data stream onto a portion of a display screen of the computer system; and

a display subsystem to perform a graphical operation on the display screen defined by the graphical command, wherein the graphical command controls the configuration of the video scene including specifying a set of parameters that define selection regions on the display screen.

71. (Previously Presented) A computer system, comprising:

a modem to receive a video stream and a data stream synchronized to the video stream, the data stream specifying at least one graphical command;

a processor to generate a video scene defined by the data stream onto a portion of a display screen of the computer system; and

a display subsystem to perform a graphical operation on the display screen defined by the graphical command, wherein a graphical operation defined by the graphical command controls the configuration of the video scene including specifying a selection device to pick selection regions on the display screen and determine an area on the display screen for placement of the video scene.

72. (Previously Presented) A computer system, comprising:

a modem to receive a video stream and a data stream synchronized to the video stream, the data stream specifying at least one graphical command;

a processor to generate a video scene defined by the data stream onto a portion of a display screen of the computer system; and

a display subsystem to perform a graphical operation on the display screen defined by the graphical command, wherein the graphical command controls the configuration of the video scene including determining placement and format of a text including font, color, and point size.

73. (Previously Presented) A computer system, comprising:

a modem to receive at least a portion of a video frame from a transmitter, the modem to receive a command from the transmitter; and

a processor to configure a display according to the command, wherein the command controls the configuration of the at least a portion of the video frame, the processor to configure the display including the processor to change a screen background color, the display to display the at least a portion of the video frame.

74. (Previously Presented) A computer system, comprising:

a display;

a modem to receive at least a portion of a video frame from a transmitter, the modem to receive a command from the transmitter; and

a processor to configure the display according to the command, wherein the command controls the configuration of the at least a portion of the video frame, the processor to change a screen background pattern, the display to display the at least a portion of the video frame.

75. (Previously Presented) A computer system, comprising:  
a display;  
a modem to receive at least a portion of a video frame from a transmitter, the  
modem to receive a command from the transmitter; and  
a processor to configure the display according to the command, wherein the  
command controls the configuration of the at least a portion of the video frame, the  
processor to display text, the display to display the at least a portion of the video frame.

76. (Previously Presented) A computer system, comprising:  
a display;  
a modem to receive at least a portion of a video frame from a transmitter, the  
modem to receive a command from the transmitter; and  
a processor to configure the display according to the command, wherein the  
command controls the configuration of the at least a portion of the video frame, the  
processor to display a text box, the display to display the at least a portion of the video  
frame.

77. (Previously Presented) A computer system, comprising:  
a display;  
a modem to receive at least a portion of a video frame from a transmitter, the  
modem to receive a command from the transmitter; and  
a processor to configure the display according to the command, wherein the  
command controls the configuration of the at least a portion of the video frame, the  
processor to change a text font size, the display to display the at least a portion of the  
video frame.

78. (Previously Presented) A computer system, comprising:  
a display;  
a modem to receive at least a portion of a video frame from a transmitter, the  
modem to receive a command from the transmitter; and  
a processor to configure the display according to the command, wherein the  
command controls the configuration of the at least a portion of the video frame, the  
processor to change a text font color, the display to displaying the at least a portion of the  
video frame.

79. (Previously Presented) A computer system, comprising:  
a display;  
a modem to receive at least a portion of a video frame from a transmitter, the  
modem to receive a command from the transmitter; and  
a processor to configure the display according to the command, wherein the  
command controls the configuration of the at least a portion of the video frame, the  
processor to display an icon, the display to display the at least a portion of the video  
frame.

80. (Previously Presented) A computer system, comprising:  
a display;  
a modem to receive at least a portion of a video frame from a transmitter, the  
modem to receive a command from the transmitter; and  
a processor to configure the display according to the command, wherein the  
command controls the configuration of the at least a portion of the video frame, the  
processor to order graphic items for layering on the display screen, the display to display  
the at least a portion of the video frame.

81. (Previously Presented) A computer system, comprising:

a display;

a modem to receive at least a portion of a video frame from a transmitter, the modem to receive a command from the transmitter; and

a processor to configure the display according to the command, wherein the command controls the configuration of the at least a portion of the video frame, the processor to define a height of a selection region, the display to display the at least a portion of the video frame.

82. (Previously Presented) A computer system, comprising:

a display;

a modem to receive at least a portion of a video frame from a transmitter, the modem to receive a command from the transmitter; and

a processor to configure the display according to the command, wherein the command controls the configuration of the at least a portion of the video frame, the processor to define a width of a selection region, the display to display the at least a portion of the video frame.

83. (Previously Presented) A computer system, comprising:

a display;

a modem to receive at least a portion of a video frame from a transmitter, the modem to receive a command from the transmitter; and

a processor to configure the display according to the command, wherein the command controls the configuration of the at least a portion of the video frame, the

processor to define a color palette, the display to display the at least a portion of the video frame.

84. (Previously Presented) A computer system, comprising:  
a modem to receive a video data stream and an associated data stream  
corresponding to the video data stream;  
a display device to display a video image defined by the video data stream; and  
a processor to perform an interactive command function specified by the  
associated data stream, wherein the interactive command function comprises a command  
that specifies a set of parameters that controls the configuration of the video image  
including determining an area on a display surface of the display device for placement of  
a video display window that contains the video image.

85. (Previously Presented) The computer system of claim 84 wherein the interactive  
command function further comprises a command that controls the configuration of the  
video image including specifying a set of pixel data or graphical description commands  
that correspond to a graphical object.

86. (Previously Presented) A computer system, comprising:  
a modem to receive a video data stream and an associated data stream  
corresponding to the video data stream;  
a display device display a video image defined by the video data stream; and  
a processor to perform an interactive command function specified by the  
associated data stream, wherein the interactive command function comprises a command  
that specifies a set of parameters that controls the configuration of the video image



including determining an area on a display surface of the display device for placement of a selection window that corresponds to the video image.

87. (Presently Presented) A computer system, comprising:  
a modem to receive a video data stream and an associated data stream  
corresponding to the video data stream;  
a display device to display a video image defined by the video data stream; and  
a processor to perform an interactive command function specified by the  
associated data stream, wherein the interactive command function comprises a command  
that controls the configuration of the video image including specifying an interactive  
command that is performed if a user selects a selection window, the selection window  
corresponding to the video image.

88. (Previously Presented) The computer system of claim 87 further comprising:  
a display subsystem to perform a graphical operation on a display screen defined  
by a graphical command, wherein the command controls the configuration of the video  
image including specifying a color palette for the display screen.

89. (Previously Presented) The computer system of claim 88 wherein the graphical  
command further controls specifying placement of a graphical object on the display  
screen.

90. (Previously Presented) A computer system, comprising:  
a display;  
a modem to receive at least a portion of a video frame from a transmitter, the  
modem to receive a command from the transmitter; and

a processor to configure the display according to the command, wherein the command controls the configuration of the at least a portion of the video frame and wherein the command scales a video screen, the display to display the at least a portion of the video frame in the video screen.

91. (Previously Presented) The computer system of claim 90, wherein the transmitter is a satellite transmitter and wherein the modem is coupled to the satellite transmitter.

92. (Previously Presented) The computer system of claim 90, wherein the transmitter is a cable television transmitter and wherein the modem is coupled to the cable television transmitter.

93. (Previously Presented) The computer system of claim 90, wherein the transmitter is a television broadcast transmitter and wherein the modem is coupled to the television broadcast transmitter.

94. (Previously Presented) The computer system of claim 90 wherein the processor to configure the display includes the processor to specify a coordinate scale.

95. (Previously Presented) The computer system of claim 90 wherein the processor to configure the display includes the processor to position a video screen.

96. (Previously Presented) The computer system of claim 90, wherein the processor to configure the display further comprises the processor to select a text font.

97. (Previously Presented) The computer system of claim 90, wherein the processor to configure the display further comprises the processor to change a text background color.

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98. (Previously Presented) The computer system of claim 90, wherein the processor to configure the display further comprises the processor to change a text background color to transparent.

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